

## **Problem statement-4 Hibernate**

### **Html file**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="prod">List</a>
<a href="aa">Log4j</a>
</body>
</html>
```

### **Class File**

```
package com;
```

```
import org.hibernate.SessionFactory;
import org.hibernate.boot.Metadata;
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
```

```
public class HibernateUtil {
```

```
    private static final SessionFactory sessionFactory;
```

```
    static {
        try {
            StandardServiceRegistry standardRegistry = new
StandardServiceRegistryBuilder().configure("hibernate.cfg.xml").build();
            Metadata metaData = new
MetadataSources(standardRegistry).getMetadataBuilder().build();
            sessionFactory = metaData.getSessionFactoryBuilder().build();
        } catch (Throwable th) {
            throw new ExceptionInInitializerError(th);
        }
    }
```

```

    }

    public static SessionFactory getSessionFactory() {
        return sessionFactory;
    }
}

```

## Servlet file

```

package com;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
public class InitHibernateLogj extends HttpServlet {
    private static final long serialVersionUID = 1L;
    // public InitHibernateLogj() {
    //     super();
    //     // TODO Auto-generated constructor stub
    // }
    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        try {
            PrintWriter out = response.getWriter();
            out.println("<html><body>");
            SessionFactory factory = HibernateUtil.getSessionFactory();

            Session session = factory.openSession();
            out.println("Hibernate Session opened.<br>");
            session.close();
            out.println("Hibernate Session closed.<br>");

            out.println("</body></html>");

        } catch (Exception ex) {
            throw ex;
        }
    }
}

```

```

        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    }
}

```

## Log4j file

```

# Direct log messages to a log file
log4j.appender.file=org.apache.log4j.RollingFileAppender
log4j.appender.file.File=C:\Users\Swaroop\Desktop
log4j.appender.file.MaxFileSize=1MB
log4j.appender.file.MaxBackupIndex=1
log4j.appender.file.layout=org.apache.log4j.PatternLayout
log4j.appender.file.layout.ConversionPattern=%d{ABSOLUTE} %5p %c{1}:%L - %m%n
# Direct log messages to stdout
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.Target=System.out
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d{ABSOLUTE} %5p %c{1}:%L -
%m%n
# Root logger option
log4j.rootLogger=INFO, file, stdout
# Log everything. Good for troubleshooting
log4j.logger.org.hibernate=INFO
# Log all JDBC parameters
log4j.logger.org.hibernate.type=ALL

```

---

```

Hibernate Session opened.
Hibernate Session closed.

```